

Abstract

Development of information media including digital image demand storage method that can provide as small as data as a purpose to easily storage and transmit. A few years ago, wavelet method has been developed for image compression.

One of wavelet features is the use of wavelet packets to acquire more detail of information that can affect the quality of image compression.

Based on implementation and testing of wavelet packet based image compression using Set Partitioning In Hierarchical Trees (SPIHT) quantization shows an increment of Peak Signal to Noise Ratio (PSNR) of 0.3 decibels. This increment makes degradation of compression ratio.

Keywords: *image compression, wavelet packet, Set Partitioning In Hierarchical Trees (SPIHT).*